Whitley and Monkseaton Urban District Council.

Annual Report

For the Year 1907,

OF

J. P. SPARKS, M.D.,

MEDICAL OFFICER OF HEALTH.

AND

J. W. HARPER, INSPECTOR OF NUISANCES.

FEBRUARY 1908.

WHITLEY BAY.

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WHITLEY BAY,

JANUARY 1908.

TO THE CHAIRMAN AND MEMBERS OF THE WHITLEY AND MONKSEATON URBAN DISTRICT COUNCIL.

GENTLEMEN,

I beg to present to you the Annual Report on the health of the district during the year 1907. The general death-rate for the year is 8·64 as compared with 9·45 for 1906 and 10·5 the average for the preceding ten years. The zymotic death-rate is ·5 per 1000 of population as compared with ·71 for 1906. The infant mortality rate is 53·5 per 1000 births registered as against 76·99 per 1000 births in 1906. The phthisis death-rate is ·5 per 1000 of population as compared with ·79 in 1906. The birth-rate is 17·36 per 1000 of population as compared with 16·38 in 1906. It will be seen that all these rates have decreased except the birth-rate which shews a small increase, the death rate is the lowest that has been recorded for the past ten years.

Population of the District.—In order to obtain as accurate an estimate as possible of the population a census of the houses of the district was taken in July and from the results obtained the population was estimated to be 14,000 made up as follows.

Name of Ward.	Houses occupied.	Houses empty	Population.
St. Marys :	1089	23	5400
Marden :	624	12	3100
Rockcliff :	699	11	3450
Monkseaton :	413	9	2050
			14000

In 1906 the population was estimated to be 12,700.

Improvements of and additions to the District : for the following information I am indebted to the Surveyor, Mr. John Moore.

New drains : 2 miles, 555 yds.
New Sewers : ½ mile 163yds.

New Buildings where habitation certificates have been granted.

Houses	149
Shops	2
Hotels	2
Churches	2

Mortality Statistics : The total number of deaths registered the during year was 121. Two deaths occurred in the Convalescent Home and have been deducted, and two deaths, one of an infant belonging to this district which occured in the Tynemouth Union Workhouse, and one occurring in the Earsdon Isolation Hospital have been added, leaving the total number unchanged. 45 deaths occurred in persons 65 years of age and upwards. The greatest age registered at death was 92 years.

Infant Mortality :—13 deaths occurred in infants under 1 year of age giving a mortality of 53·5 per 1000 births registered, and a general death-rate of ·93 per 1000 of population. The rates in 1906 were 76·99 per 1000 births and 1·26 per 1000 of population.

The 13 deaths were due to the following causes . premature birth 4, diarrhœa 1, tubercular meningitis 1, convulsions 1. atrophy 4, pneumonia 1, accident (overlaying) 1.

This is the lowest infant mortality-rate of which there is any record in this district.

Zymotic Death Rate :—7 deaths were due to zymotic diseases as compared with 9 in 1906, the zymotic death-rate being ·5 per 1000 as compared with ·71 in 1906. The 7 deaths were due to measles 1, scarlet-fever 1, diphtheria 2, enteric fever 1, whooping cough 1, and diarrhœa 1. One of the deaths from diphtheria occurred in the Earsdon Isolation Hospital.

Deaths from general diseases :—7 deaths were due to phthisis as compared with 10 in 1906. Two of the deaths were those of non-residents who came to this district for treatment. These deaths did not occur in public institutions and were not deducted for that reason.

Other tubercular diseases caused 2 deaths, the total number of deaths from tuberculosis thus being 9 as against 15 in 1906. Pneumonia caused 12 deaths and bronchitis 5, 2 deaths were due to pleurisy, the death-rate from respiratory diseases other than phthisis being 1·36 per 1000 of population. Cancer caused 9 deaths and heart disease 23 deaths. Four inquests were held during the year, one on the body of a child who was accidently overlaid, one on the body of a man who committed suicide by cutting his throat, one on the body of a man who was found dead on the sea-shore, and one on the body of a woman who was cast up by the sea. Seven deaths were uncertified.

Births :—During the year 243 births giving a birth-rate of 17·36 per 1000 of population were registered. Four of the births were illegitimate.

I give a table at the end of my report shewing the birth, death and infant mortality rates and the incidence of infectious diseases in each ward of the district.

Infectious Diseases : Excluding chicken-pox which is no longer a notifiable disease, 46 cases of infectious diseases were notified. In 1906 the number exclusive of chicken-pox was 45. The 46 cases were made up as follows : diphtheria 24, scarlet-fever 15, enteric fever 4, and erysipelas 3.

Diphtheria : Cases occurred in January, April, May, July, August, September, November and December. Two deaths were due to diphtheria. The bacteriological examinations conducted by the bacteriologist to the County Council have again proved of great service-

Enteric Fever : Three of the cases occurred in one house and were imported into the district from Nottingham. In the other case the infection was also contracted outside the district.

Measles : There were two outbreaks of this disease, one in the earlier part of the year in the Monkseaton District and one in the southern portion of the district at the end of October. Closure of the South Council School for a fortnight promptly stopped the outbreak.

Dairies, Cowsheds & Milkshops: There are 37 purveyors of milk in the district, 15 cowkeepers and 22 milkshops. These have been inspected during the year. More stringent regulations are required to deal with dairies and these will, I hope, be an accomplished fact before another year has expired.

Slaughter-Houses : Mr. Clementson continues to use his private slaughter-house. All the other butchers of the district use the abattoir at Hill Heads.

Workshops : there are 46 on the register.

Bakers	10	Blacksmiths	2
Plumbers	5	Milliners	4
Dressmakers	6	Upholsterer	1
Printer	1	Joiners	6
Tailors	2	Bootmakers	3
Glazier	1	Hosiers	2
Saddler	1	Cabinetmaker	1
Laundry	1		

These have been visited during the year. No defects were found and no notices have been served. There is one out-worker on the list, the person working in Newcastle and living in Whitley. No offensive trade is carried on in the district.

Water Supply: There has been an abundant supply of water during the year. Analysis having shown that the reservoir at Marden was exposed to sewage pollution; representations were made to the Tynemouth Corporation, who have agreed that pumping from this reservoir shall not again take place without notice to you.

Improvements: The most important sanitary improvement during the year has been the opening of the furnace for the destruction of shop-refuse at Hill Heads. This has been of great value to the district and has enabled the offensive tip at Hill Heads to be disused. The sewer on the Marden boundary is nearly completed. The removal of refuse has been much more efficiently carried out since it was taken in hand by the Council workmen. I have received no complaints this year which is the first that has passed without complaints on this score.

Requirements of the district : A steam disinfector has not yet been provided. No effort should be spared to render the closing of the Marden reservoir permanent. The analysis proved, to quote the words of the analyst. that the water in this reservoir was polluted with sewage to such an extent as to render it "unthinkable" as a drinking water,

The lower end of Whitley Road requires attention and the promenade in front of Windsor Crescent should be completed and the road made at the earliest possible opportunity.

The remaining privy-ashpits of the district should be abolished, as the County Medical Officer of Health remarks in his report for 1906 "privy middens emptied once a month are a discredit to any health resort." Owing to the rainy summer the smells along the sea-front were not so objectionable but I recommend

the provision of gas extractor ventilators to the sewer running along the Promenade. I give as an addendum to the report some notes which I have made on the Early Notification of Births Act.

I am indebted to Mr. Harper for his able and zealous assistance during the year.

I am,

Your obedient servant,

J. P. SPARKS,

Medical Officer of Health.

THE EARLY NOTIFICATION OF BIRTHS ACT.

An act to provide for the early notification of births was passed in the last session of parliament and became law on August 28th, ult.

This act provides that notice in writing shall be given to the medical officer of health for the district, of every birth within 36 hours of its occurrence. The act is adoptive and may be adopted by any urban council. The purpose of the act is to lessen the mortality in the first year of life by providing earlier opportunities than exist at present for giving advice to and supervision of, the parents and guardians of new-born babies. The act is likely to prove of most value in those districts where there are health visitors to visit and advise the mother as to the care and reatment of her child. Where there is no health visitor, as is the case in this district, the only way in which the act might be made of value would be by the issue to the parents of a pamphlet or leaflet giving advice concerning the management of a new-born child. In order that you may be able to judge of the necessity or otherwise of adopting this act I give here the infant mortality of this district for the last 6 years.

Year.	No, of deaths in infants under 1 year of age.	No. of births registered during the year.	Rate per 1000 births
1901	26	173	150
1902	19	200	85
1903	24	214	112·15
1904	28	204	137·25
1905	18	228	78·95
1906	16	208	76·99
Average for 6 years	21·83	204·5	106·55

Causes of the infant mortality :

	1901	1902	1903	1904	1905	1906	Total
Epidemic diarrhœa :	11	5	5	3	1	5	30
Common infectious diseases :		3		3	2		8
Tubercular diseases :	3		2	1	1	2	9
Premature birth :	2	5	5	5	4	3	24
Congenital defects :	1	1	2	5			9
Accidents :	1	1		1			3
All other causes :	8	4	10	10	10	6	48
							131

It will be thus noticed that the infant mortality rate has ranged from 150 per 1000 births in 1901 to 76·99 in 1906 and on looking at the causes of these deaths it is fair to presume that some of them were preventible. The commonest cause of death will be seen to be diarrhœa, a disease which may usually be prevented by proper and appropriate feeding.

The next most prolific cause is premature birth and this is a cause the operation of which is not likely to be influenced by the act. The proper way to deal with this cause is to see that instruction and advice are offered to the pregnant woman in order that her offspring may not be prematurely born and may not be born with such defects that its continued retention of life is impossible. The compulsory or voluntary notification of pregnancy being outside the limits of practical politics this important branch of the prevention of infant mortality must remain, as at present, in private hands.

It will be noticed that tubercular diseases are responsible for 9 deaths out of a total of 131 in the 6 years and these deaths are preventible and ought to be prevented at any rate those of them, and they are more than half the total number, which are due to food infection.

The benefit to the district which may be obtained by the adoption of this act is that the infant mortality may be lessened and this result may be obtained by the appointment of a health visitor or failing such an appointment by conveying instruction and advice by means of a pamphlet or leaflet.

I do not think that the Local Government Board will sanction the adoption of the act in this district unless you are prepared to appoint a properly qualified health-visitor and I also think that the health-visitor should be a qualified medical man or woman.

The infant mortality rate for this year is the smallest ever recorded in this district but in my opinion it might be further reduced if the health visitor was a person of ability, experience and tact. Whether it is possible to offer a sufficient salary in this district to ensure the appointment of a person with these qualifications I must leave to you to decide.

Statistics for the Wards.

Name of Ward.	Birth-rate per 1000 of population	Death-rate per 1000 of population	Infant Mortality per 1000 births registered.	Incidence of Infectiousdiseases per 1000 of population.
St. Mary's Ward.	17·17	9·07	62·5	2·22
Marden Ward.	16·8	6·8	19·8	1·94
Rockcliff Ward.	15·3	10·72	75·45	4·92
Monkseaton Ward.	2	10·25	46·5	5·36

Table I.—Vital Statistics of Whole District during 1907 and previous years.

Whitley and Monkseaton Urban District.

YEAR.	Population estimated to Middle of each Year.	BIRTHS.		Total deaths registered in the district.				Total Deaths in Public Institutions in the District.^	Deaths of Non-residents registered in Public Institutions in the District	Deaths of residents registered in Public Institutions beyond the District	Nett deaths at all ages belonging to the District.	
				Under 1 year of age.		At all Ages.						
		Number	Rate*	Number	Rate per 1000 Births registered	Number	Rate*				Number.	Rate*
1	2	3	4	5	6	7	8	9	10	11	12	13
1897	5755	98	17			59	10·25				59	10·25
1898	No Information											
1899	No Information											
1900	9165		16·47									10·36
1901	8000	173	21·62	26	150	108	13·5				108	13·5
1902	9000	200	22·22	19	85	97	10·78				97	10·78
1903	10000	214	21·4	24	112·15	98	9·8				98	9·8
1904	11808	204	17·17	28	137·25	130	10·94				130	10·94
1905	12000	228	19	18	78·95	105	8·75	1	1	5	109	9·08
1906	12700	208	16·38	16	76·99	120	9·45	3	3	3	120	9·45
Averages for years 1897-1906	9803	189	19·3	23·5	106·72	102·4	10·5	2	2	4	103	10·54
1907	14000	243	17·36	13	53·5	121	8·64	2	2	2	121	8·64

*Rates in Columns 4, 8, and 13 calculated per 1,000 of estimated population.

Area of District in acres (exclusive of area covered by water) 1540

Total population at all ages..... 7705
Number of Inhabited Houses.....1,550
Average number of persons per house....4·98
} At Census of 1901

Institutions within the District receiving sick and infirm persons from outside the District.—The Prudhoe Memorial Convalescent Home.

Institutions outside the District receiving sick and infirm persons from the District.—The Union Workhouse Infirmary at North Shields, The Isolation Hospitals at Earsdon and Scaffold Hill.

Is the Union Workhouse within the District? No!

Table II.—Vital Statistics of separate Localities in 1907 and previous years.

Name of District: **Whitley and Monkseaton Urban.**

Names of Localities.	1. St. Mary's Ward				2. Marden Ward.				3. Rockcliff Ward				4 Monkseaton Ward			
YEAR.	Population estimated to middle of each year	Births registered.	Deaths at all Ages.	Deaths under 1 year	Population estimated to middle of each year.	Births registered	Deaths at all Ages	Deaths under 1 year	Population estimated to middle of each year	Births registered	Deaths at all Ages	Deaths under 1 year	Population estimated to middle of each year	Births registered.	Deaths at all Ages	Deaths under 1 year
	a.	*b.*	*c.*	*d*	*a*	*b.*	*c.*	*d.*	*a.*	*b.*	*c.*	*d.*	*a.*	*b.*	*c.*	*d.*
1897 ..																
1898 ...																
1899 ...																
1900 ...																
1901 ...																
1902 ...																
1903 ...																
1904 ...																
1905 ...																
1906 —	5000	80	42	9	3000	51	28	3	3050	46	35	4	1650	31	15	1
Averages of Years 1897 to 1906.																
1907 ...	5400	96	49	6	3100	51	21	1	3450	53	37	4	2050	43	14	2

Table III.

Cases of Infectious Diseases notified during the Year, 1907.

Whitley and Monkseaton Urban District,

Notifiable Disease	Cases notified in whole district.							Total cases notified in each locality				No of cases removed to Hospital from each locality			
	At all Ages.	At Ages†—Years.						1 St Mary's Ward	2 Marden Ward	3 Rockcliff Ward.	4 Monkseaton Ward.	1 St Mary's Ward	2 Marden Ward.	3 Rockcliff Ward.	4 Monkseaton Ward
		Under 1	1 to 5	5 to 15	15 to 25	25 to 65	65 and upwds								
Small-pox ...															
Cholera ...															
Diphtheria ...	24		3	14	4	3		5	5	8	6	1	1	6	2
Membranous Croup															
Erysipelas ...	3				1		2	2		1					
Scarlet fever ...	15			10	3	2		2	1	7	5	1			2
Typhus fever ...															
Enteric fever ...	4			1		3		3		1					
Relapsing fever ...															
Continued fever ...															
Puerperal fever ...															
Plague ...															
...															
Totals	46		3	25	8	8	2	12	6	17	11	2	1	6	4

Isolation Hospitals.—Earsdon and Scaftold Hill, [Small-pox]

Total Cases removed to Hospital ... 13.

Diphtheria 10

Scarlet Fever 3

Table IV.

Causes of, and Ages at Death during Year, 1907.

Whitley and Monkseaton Urban District.

Causes of Death	Deaths in or belonging to whole district at subjoined ages.							Total Deaths whether of Residents or Non-"Residents" in Public Institutions in the District.
	All Ages.	Under 1 year	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards.	
1	2	3	4	5	6	7	8	
Measles ...	1		1					
Scarlet Fever ...	1					1		
Whooping Cough ...	1		1					
Diphtheria and membranous croup ...	1		1					
Enteric Fever —	1					1		
Epidemic influenza ...	2					1	1	
Diarrhœa ...	1	1						
Erysipelas ...	1						1	
Phthisis (Pulmonary Tuberculosis) ...	7				1	5	1	
Other Tubercular diseases ...	2	1		1				
Cancer, malignant disease ...	9					8	1	
Bronchitis ...	5					1	4	
Pneumonia ...	12	1	1	2		7	1	1
Pleurisy ...	2					1	1	
Alcoholism, Cirrhosis of liver ...	2					2		
Premature birth ...	4	4						
Heart diseases ...	23					7	16	1
Accidents ...	1	1						
Suicides ...	2				1	1		
All other causes ...	43	5	1	1	1	16	19	
All causes ...	121	13	5	4	3	51	45	2

Table V. Whitley & Monkseaton Urban District

INFANTILE MORTALITY DURING THE YEAR 1907.

Deaths from stated Causes in Weeks and Months under 1 Year of Age.

CAUSE OF DEATH.		Under 1 week	1-2 Weeks	2-3 Weeks	3-4 Weeks	Total under 1 month	1-2 Months	2-3 Months	3-4 Months	4-5 Months	5-6 Months	6-7 Months	7-8 Months	8-9 Months	9-10 Months	10-11 Months	11-12 Months	Total Deaths under one year
ALL CAUSES	Certified 12	3		2		5	3		2		1				1			12
	Uncertified .. 1					1												1
i. Common Infectious Diseases	Small-pox	Nil.																
	Chicken-pox																	
	Measles																	
	Scarlet Fever																	
	Diphtheria: Croup																	
	Whooping Cough																	
ii. Diarrhœal Diseases (*See Notes to Tables IV.*)	Diarrhœa, all forms ..								1									1
	Enteritis, Muco-enteritis, Gastro-enteritis																	
	Gastritis, Gastro-intestinal Catarrh	Nil.																
iii. Wasting Diseases.	Premature Birth	3		1		4												4
	Congenital Defects .. (*See notes to Table IV.*)																	
	Injury at Birth ..																	
	Want of Breast Milk Starvation																	
	Atrophy, Debility, Marasmus			1		1	2		1									4
iv. Tuberculous Diseases.	Tuberculous Meningitis .. (*See notes to Table IV.*)	Nil.													1			1
	Tuberculous Peritonitis Tabes Mesenterica																	
	Other Tuberculous Diseases [*See notes to Table IV.*]	Nil.																
v. Other Causes.	Erysipelas ..	Nil																
	Syphilis	Nil.																
	Rickets	Nil.																
	Meningitis *not Tuberculous*	Nil.																
	Convulsions				1	1												1
	Bronchitis ..																	
	Laryngitis ..	Nil.																
	Pneumonia ..	Nil.									1							1
	Suffocation, overlying ..	Nil.					1											1
	Other Causes ..	Nil.																
		3		2	1	6	3		2		1				1			13

District (or sub-division) of Whitley and Monkseaton

Population Estimated to middle of 1907, 14,000

Births in the year { Legitimate 239. Illegitimate 4

Deaths in the year { Legitimate Infants 12. Illegitimate Infants 1.

Deaths from all Causes at all Ages 121.

Annual Report of the Medical Officer of Health for the year 1907 for the Urban District of Whitley & Monkseaton on the administration of the Factory and Workshop Act, 1901 in connection with **Factories, Workshops, Laundries, Workplaces, and Homework.**

1.---INSPECTION

Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances

Premises.	Number of Inspections	Written Notices,	Prosecutions
Factories ... ... (including Factory Laundries) Workshops ... ... (Including Workshop Laundries) Workplaces	Periodical	Nil,	Nil.
Other than Out-workers Premises included in Part III. ...			

2.---DEFECTS FOUND.

Particulars.	Number of Defects Found	Remedied	Referred to H.M. Inspector	Number of Prosecutions
Nuisances under the Public Health Acts:				
Want of cleanliness				
Want of Ventilation				
Overcrowding				
Want of drainage of floors ...				
Other Nuisances				
Sanitary accommodation { insufficient. unsuitable or defective not separate for sexes				
Offences under the Factory & Workshop Act:				
Illegal Occupation of underground bakehouse (S. 101)	Nil,			
Breach of special sanitary requirements for bakehouses (S.S. 97 to 100) s				
Failure as regard lists of outworker (S.107)				
Giving out work to be done in premises which are { unwholesome (S.108) infected (S.110) ...				
Allowing wearing apparel to be made in premises infected by scarlet fever or smallpox (S.109)				
Other offences—Defective Drains ...				

3.---OTHER MATTERS.

Class.	Number
Matters notified to H.M. Inspectors:	
Failure to affix Abstract of the Factory and Workshop Act (S.133)	
Action taken in matters referred by H.M Inspectors. as remediable under the Public Health Acts, but not under the Factory Act (S.5) { Notified by H,M. Inspector / Reports (of action taken) sent to HM Inspectors	Nil
Other - - - - -	
Underground Bakehouses (S.101)	
In use at the end of the year - - -	
Certificates granted during the year - - -	None
In use at the end of the year - - - -	
Homework:---Lists of Outworkers	
Lists received - - - - -	
Addresses of outworkers forwarded to other Authorities - / received from other Authorities -	One
Homework in unwholesome or infected premises:	
Notices prohibiting homework in unwholesome premises (S.108)	
Cases of Infectious disease notified in homeworkers' premises -	None.
Orders prohibiting homework in infected premises (S.110) -	
Workshops on the Register (S.131) at the end of the year - 46	
Bakehouses - 11	
Total number of workshops on Register	46

COUNTY OF NORTHUMBERLAND.

WHITLEY AND MONKSEATON URBAN DISTRICT COUNCIL.

Annual Report

OF THE

Inspector of Nuisances,

For the Year 1907.

Annual Report of the Inspector of Nuisances.

To the Chairman and Members of the
Whitley and Monkseaton Urban District Council.

GENTLEMEN,

I beg to submit my Annual Report of the work done in my department during the year ending 31st December 1907.

Scavenging of House and Trade Refuse.—Early in the year your Council decided to alter your system of scavenging, and instead of giving the whole work into the hands of contractors, as had previously been done, to contract for team labour only, and yourselves directly employ other labour required.

This new system was commenced on March 31st, and after a nine months trial I am pleased to state the experiment has in every respect been a great success.

During the year I have had removed from house and trade premises in the district the following loads of refuse

From	Ashboxes and Privy Pails	4680	cart loads
,,	Ashpits	260	,, ,,
,,	Shops	312	rolley loads.
	Total	5252	loads.

Estimating the house refuse at 15 Cwt. and the trade refuse at 20 Cwt. per load it will be seen that 4017 tons of matter has been dealt with. *See Table* 1

Nuisances.—Under the Public Health Acts, Bye-Laws and Regulations in operation in the District I have served preliminary Notices upon Owners, Agents and occupiers dealing with 602 Nuisances and other offences. In 35 cases official Notices were served but in only two of these was it found necessary to take legal proceedings. A detailed statement is submitted in Tables II & III.

Drains.—The Drains belonging 49 inhabited homes were tested with the smoke test. Those belonging 31 premises were entirely relaid and 15 were suitably repaired. An aggregate of 398 yards of drains were made efficient and before these were finally approved 157 water and smoke tests were applied.

Slaughter-Houses.—All the Councils slaughter-houses at Hill Heads are now occupied, during part of the year one house was occupied by two butchers but at the present time each butcher has a separate slaughter-house.

There is only one private slaughter house now in use in the district namely Mr. Clementson's. This has been frequently visited by me when I invariably found the premises in a clean condition.

Dairies, Cowsheds and Milkshops.—The Register contains the names of 37 persons, 15 of these being cowkeepers and purveyors of milk and 22 purveyors of milk only The names of 2 persons were removed from the register and 4 have been entered during the year. The occupiers of the various cowsheds and milkshops have kept their premises in fairly good order. One Notice was served to have a cowshed limewashed, one to have a choked drain cleared and one to empty a cesspool.

Factories and Workshops.—At the end of the year 35 Workshops, 11 Bakehouses and 1 Laundry were on the Register No work is sent out to homeworkers.

The different premises have been systematically inspected but in no case has any breach of the act been observed.

Infectious Diseases. I have received from the Medical Officer 98 notifications; 22 cases occurred in Rockcliffe Ward 42 in St. Mary's Ward, 18 in Marden Ward, and 16 in Monkseaton Ward. An inspection of the premises was made in all cases and where considered advisable drains and sanitary fittings tested. Acting on the Medical Officers instructions 10 cases of diphtheria and 3 of Scarlet Fever were removed to the Isolation Hospital at the Grange Earsdon. 82 rooms in 62 houses were disinfected following cases of notifiable diseases, 18 rooms in 12 houses were disinfected following cases of Phthisis &c., and 62 Class Rooms belonging Elementary Schools were also disinfected.

Petroleum Acts.—Two persons are licenced to store petrol upon their premises for sale. One licensee has withdrawn from the trade. In both cases the Petrol is stored only in two gallon hermetically sealed cans.

I am, Gentlemen,

your obedient servant,

Jas. W. HARPER,

Inspector of Nuisances

Table I.

Removal of House and Shop Refuse—Cost of £771 14s 0d

No. of Tons of Refuse dealt with 4,017

	Tons	Cost.	Cost per ton	
			Year 1907	Average 1902-6.
		£ s d.	s. d.	s. d.
Ashpits, Privy Pails, Dry Ash Pails and Shop Refuse	4017	771 14 0	3 10	4 3½

	Cwts.	Cost for year 1907	Average cost 1902-6
		s. d.	s. d.
Per Head of Population (14,000 estimated) ...	5·7	1 1¼	1 6⅔
Per House (*2,825 estimated)	28·4	5 5¾	7 3¼

*Approximate Number of Houses occupied.
The number of Houses in the District is about 2,944.

No. of Water Closets &c.

Description.	Number.
Water Closets (in houses and yards)	3283
Ashpits (two-thirds of which are combined privy ashpits) ...	66
Receptacles for Dry House Refuse	1875
Privy Pails	1094

Ashpits are emptied at least once a month, other receptables are emptied & trade refuse removed 3 times a week.

Table II.

A Summary of the Nuisances dealt with by notice under the Public Health Acts and Bye-Laws.

Nature of Nuisance dealt with and work required to be done	Number of nuisances
To relay defective drains, including the provision of trapped gullies, intercepting traps, new W.C'.s, fittings and ventilation ...	31
To repair defective drains	15
To clear blocked Drains and Waterclosets	26
To repair defective Flushing Apparatus to W.C's.	1
To make good defective Watercloset Basins	12
To abolish foul Ashpits and Privies and substitute Waterclosets ...	3
To repair pail privies	2
To cleanse dirty Yards and Sinks (served on occupier) ...	2
Keeping Animals in a dirty state	2
To empty and cleanse Cesspool	1
Defective Yard Paving	3
Damp House Walls	1
To repair Defective Soil and Vent pipes	26
Sanitary Pails (to provide)	271
Hatch Doors (to provide or repair)	45
Fasteners on Hatch Doors (to provide)	157
Miscellaneous	4
Total	602

Table III.

Details relating to certain work carried out in the abatement of Nuisances during 1907.

Defective Drains, length in yards re-constructed & made efficient	398
New Gullies provided to drains	38
New Inspection Chambers	17
New Intercepting Traps	17
New Fresh Air Inlet Pipes fixed	23
New Iron and Lead Soil and Ventilation Pipes fixed or repaired ...	26
Ashpits and Privies removed	13
Water Closets provided	14
Defective Watercloset Basin removed and better design substituted	13
Sanitary Pails provided	271
Drains tested with smoke and Water	49
Choked Drains—obstruction removed	26